# Model Development Phase

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| Date | 20 April 2024 |
| Team ID | 738184 |
| Project Title | Eye Disease Detection using Deep Learning |
| Maximum Marks | 5 Marks |

**Model Selection Report**

In the model selection report for future deep learning and computer vision projects, various architectures, such as CNNs or RNNs, will be evaluated. Factors such as performance, complexity, and computational requirements will be considered to determine the most suitable model for the task at hand.

**Model Selection Report:**

| Model | Description |
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| **CNN** | The CNN model for Eye Disease Detection employs deep learning techniques to classify eye diseases from retinal scans or fundus images. Trained on labeled datasets, it learns to extract relevant features from images, enabling accurate disease prediction. This model aids in early diagnosis, facilitating timely treatment and potentially improving patient outcomes. |
| **VGG19** | Trained on large datasets of retinal or fundus images labeled with various eye diseases, VGG19 learns intricate features to classify images accurately. Its application facilitates early diagnosis of eye conditions, enabling timely medical intervention and potentially improving patient prognosis. |

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| **XCEPTION** | The Xception model utilizes a highly efficient convolutional neural network architecture trained on annotated retinal or fundus images. With its advanced feature extraction capabilities, it accurately classifies diverse eye diseases, enabling early diagnosis and timely medical intervention. |
| **INCEPTION V3** | The Inception v3 model harnesses a sophisticated convolutional neural network architecture tailored for image classification tasks. Trained on annotated retinal or fundus images, it adeptly discerns nuanced features to classify diverse eye diseases accurately. |